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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/712,187	11/12/2003	Damon Douglas Brink	157972-0005	7903	
1622	7590 06/09/2006		EXAMINER		
	ANELLA LLP T CENTER DRIVE	CAO, ALLEN T			
SUITE 400	I CENTER DRIVE	ART UNIT	PAPER NUMBER		
NEWPORT BEACH, CA 92660			2627		
			DATE MAILED: 06/09/2000	DATE MAILED: 06/09/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicati	on No.	Applicant(s)			
Office Action Summary		10/712,1	87	BRINK ET AL.			
		Examine	<u> </u>	Art Unit			
		Allen T. C		2627			
Period fo	The MAILING DATE of this communication or Reply	n appears on the	e cover sheet with the c	orrespondence ad	ldress		
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING insions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication of period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by steply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THE TRANSPORT	HIS COMMUNICATION ent, however, may a reply be timular rill expire SIX (6) MONTHS from blication to become ABANDONE	J. nely filed the mailing date of this co D (35 U.S.C. § 133).			
Status							
2a)	Responsive to communication(s) filed on Carthia action is FINAL . 2b) Since this application is in condition for all	This action is r		secution as to the	e merits is		
	closed in accordance with the practice und	der <i>Ex parte Qı</i>	<i>uayle</i> , 1935 C.D. 11, 45	33 O.G. 213.			
Dispositi	ion of Claims						
5) □ 6) ⊠ 7) □ 8) ⊠ Applicati	Claim(s) 1-25 is/are pending in the applica 4a) Of the above claim(s) 3-25 is/are withd Claim(s) is/are allowed. Claim(s) 1 and 2 is/are rejected. Claim(s) is/are objected to. Claim(s) 1-25 are subject to restriction and on Papers The specification is objected to by the Exar The drawing(s) filed on 12 November 2003 Applicant may not request that any objection to Replacement drawing sheet(s) including the co	d/or election red miner. g is/are: a)⊠ a o the drawing(s) t	quirement. ccepted or b)⊡ object be held in abeyance. See	e 37 CFR 1.85(a).			
11)	The oath or declaration is objected to by th						
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948 mation Disclosure Statement(s) (PTO-1449 or PTO/SE r No(s)/Mail Date 11/12/03.		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	D-152)		

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- 1. Applicant's election without traverse of Group I, claims 1 and 2 in the reply filed on 5/2/06 is acknowledged.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rao et al (US. 6,545,842 B2).

Rao discloses a magnetic head supporting structure having a magnetic head support structure component (114, 116) having a surface with inclusions (V denticles 170 and 172; figures 3 and 5).

Rao does not clearly disclose that there are less than 40 inclusions and having largest dimension between 0.5µm and 2µm per square millimeter (claims 1 and 2), having hardness 4 or higher on Moh's Scale (claim 2).

However, Rao discloses that "both the shape and the size or radius of the dimples 172 may be optimized for different actuator arms 114 and different suspensions 116".

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the magnetic head supporting structure component having are less than 40 inclusions and having largest dimension between 0.5µm and 2µm per square millimeter (claims 1 and 2), having hardness 4 or higher on Moh's Scale (claim 2) through routine lab experimentation and optimization of number

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of inclusions, dimension and hardness as recited to reduce aerodynamic drag forces experienced by the actuator assembly, thus reduce read/write errors due to draginduced vibrations on the heads of the disc drive.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen T. Cao whose telephone number is (571) 272-7569. The examiner can normally be reached on Mon - Thurs (7:30 - 6:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa T. Nguyen can be reached on (571) 272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner

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AC June 7, 2006